

Wnt signaling: the beta-cat(enin)'s meow.

Journal:	Genes Dev
Publication Year:	2012
Authors:	Matthieu Bauer, Karl Willert
PubMed link:	22279043
Funding Grants:	WNT signaling and the control of cell fate decisions in human pluripotent stem cells., Interdisciplinary Stem Cell Training Program at UCSD II

Public Summary:

This review article describes the current state of our understanding of a protein called beta-catenin. This protein is a critical mediator of the Wnt signaling pathway which controls the behavior of stem cells. The state of Wnt/beta-catenin signaling determines whether a stem cell self-renews, proliferates or differentiates.

Scientific Abstract:

In a study in the December 15, 2011, issue of Genes & Development, Valenta and colleagues (pp. 2631-2643) constructed a series of beta-catenin mutants that allowed them to separate beta-catenin's activity as a mediator of Wnt signaling from its activity as cell adhesion component. In doing so, they uncovered some surprising properties of Wnt signaling.

Source URL: <https://www.cirm.ca.gov/about-cirm/publications/wnt-signaling-beta-catenins-meow>